

**WHAT IS CLAIMED IS:**

1           1. A device for protecting an electronic circuit  
2 against electrostatic discharges, the device comprising:  
3           a connection terminal linked to one terminal of  
4 said electronic circuit,  
5           first and second tracks couplable respectively  
6 to first and second terminals of an electrical power  
7 source, wherein the first track has a higher electrical  
8 potential than the second track,  
9           a first diode having a cathode linked to the  
10 first track and an anode linked to the connection  
11 terminal, and  
12           a second diode having a cathode linked to the  
13 connection terminal and an anode linked to the second  
14 track,  
15           wherein the first and second diodes are  
16 associated with the surface of a substrate, the  
17 connection terminal and the first and second tracks  
18 carried by said substrate, the connection terminal  
19 located above part of at least one of the first and  
20 second diodes with respect to the substrate in a  
21 direction perpendicular to the surface of the substrate,  
22 and part of each of the first and second tracks are at  
23 least partially located between said part of at least one

24 of the first and second diodes and the connection  
25 terminal.

1        2. The device according to Claim 1, wherein the  
2 anode of the first diode is surrounded by the cathode of  
3 the first diode in a plane parallel to the surface of the  
4 substrate, and wherein the anode of the first diode is  
5 linked to the connection terminal by at least a first  
6 connection passing through one of the first and second  
7 tracks, the first connection being electrically insulated  
8 from the first and second tracks.

1        3. The device according to Claim 1, wherein the  
2 cathode of the second diode is surrounded by the anode of  
3 the second diode in a plane parallel to the surface of  
4 the substrate, and wherein the cathode of the second  
5 diode is linked to the connection terminal by at least a  
6 second connection passing through one of the first and  
7 second tracks, the second connection being electrically  
8 insulated from the first and second tracks.

1        4. The device according to Claim 1, wherein both  
2 diodes are included inside a region corresponding to the  
3 projection of the connection terminal onto the surface of  
4 the substrate, in the direction perpendicular to the  
5 surface of the substrate.

1           5. The device according to Claim 4, wherein the  
2 first and second tracks each have respective segments of  
3 track length completely located inside a cylinder having  
4 the connection terminal as a base and the direction  
5 perpendicular to the surface of the substrate as an axis.

1           6. An electrical device comprising an electronic  
2 circuit and a device for protecting against electrostatic  
3 discharges, the device comprising:

4           a connection terminal linked to one terminal of  
5 said electronic circuit,

6           first and second tracks couplable respectively  
7 to first and second terminals of an electrical power  
8 source, wherein the first track has a higher electrical  
9 potential than the second track,

10          a first diode having a cathode linked to the  
11 first track and an anode linked to the connection  
12 terminal, and

13          a second diode having a cathode linked to the  
14 connection terminal and an anode linked to the second  
15 track,

16          wherein the first and second diodes are  
17 associated with the surface of a substrate, the  
18 connection terminal and the first and second tracks  
19 carried by said substrate, the connection terminal  
20 located above part of at least one of the first and  
21 second diodes with respect to the substrate in a  
22 direction perpendicular to the surface of the substrate,  
23 and part of each of the first and second tracks are at  
24 least partially located between said part of at least one

25

25 of the first and second diodes and the connection  
26 terminal.

1        7. The electrical device according to Claim 6,  
2 wherein the electronic circuit and the device for  
3 protecting against electrostatic discharges are carried  
4 by one substrate.

1        8. The electrical device according to Claim 6,  
2 further comprising a voltage limiter connected to the  
3 first track and to the second track.